10/771,639

STN - Structure Search
8.19.04

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L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:276738 CAPLUS
DOCUMENT NUMBER: 138:287671
TITLE: Preparation of aminoimidazopyridinylalkyl(thio)ureas as cytokine biosynthesis inducers.
INVENTOR(S): Dellaria, Joseph F.; Haraldson, Chad A.; Heppner, Philip D.; Lindstrom, Kyle J.; Merrill, Bryon A.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: U.S., 40 pp., Cont.-in-part of U.S. Ser. No. 16,073. CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6545017	B1	20030408	US 2002-165453	20020607
US 2002107262	A1	20020808	US 2001-16073	20011206
WO 2003050117	A1	20030619	WO 2002-US18220	20020607
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WO 2003050118	A1	20030619	WO 2002-US18282	20020607
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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WO 2003050119	A2	20030619	WO 2002-US18284	20020607
WO 2003050119	A3	20030710		
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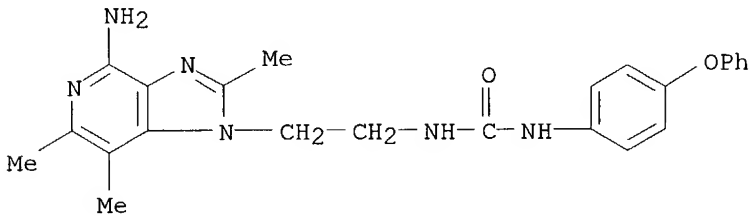
US 2003176458	A1	20030918	US 2003-358017	20030204
US 6720334	B2	20040413		
US 2003195209	A1	20031016	US 2003-357777	20030204
US 6716988	B2	20040406		
US 2004157879	A1	20040812	US 2004-771639	20040204
PRIORITY APPLN. INFO.:			US 2000-254228P P	20001208

RN 507262-43-3 CAPLUS
CN Urea, N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]-N'-(4-phenoxyphenyl)- (9CI) (CA INDEX NAME)



RN 507262-45-5 CAPLUS
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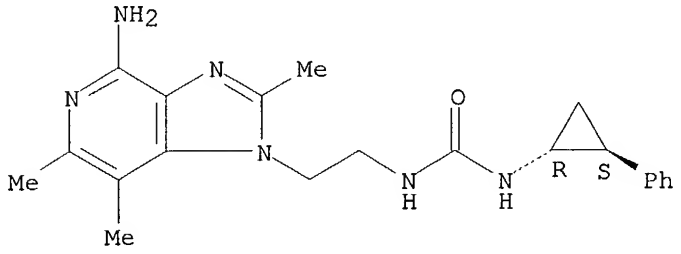
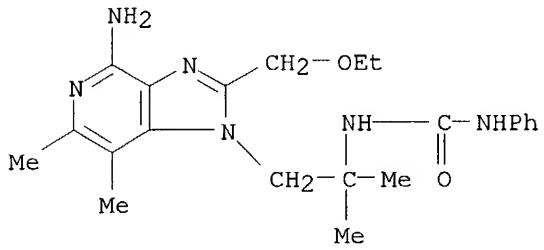
Relative stereochemistry.



RN 507262-88-6 CAPLUS
CN Urea, N-[2-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]-1,1-dimethylethyl]-N'-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:276737 CAPLUS
DOCUMENT NUMBER: 138:304283
TITLE: Preparation of aminoimidazopyridinylalkylamides as inducers of cytokine biosynthesis.
INVENTOR(S): Dellaria, Joseph F.; Haraldson, Chad A.; Heppner, Philip D.; Lindstrom, Kyle J.; Merrill, Bryon A.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: U.S., 37 pp., Cont.-in-part of U.S. Ser. No. 16,073,

abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6545016	B1	20030408	US 2002-165229	20020607
US 2002107262	A1	20020808	US 2001-16073	20011206
WO 2003050117	A1	20030619	WO 2002-US18220	20020607
W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG				
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WO 2003050118	A1	20030619	WO 2002-US18282	20020607
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WO 2003050119	A2	20030619	WO 2002-US18284	20020607
WO 2003050119	A3	20030710		
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US 2003162806	A1	20030828	US 2003-357995	20030204
US 6720333	B2	20040413		
US 2003186949	A1	20031002	US 2003-357733	20030204
US 6720422	B2	20040413		

PRIORITY APPLN. INFO.:	US 2000-254228P	P	20001208
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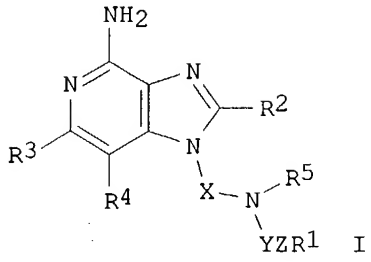
OTHER SOURCE(S): MARPAT 138:304283
GI



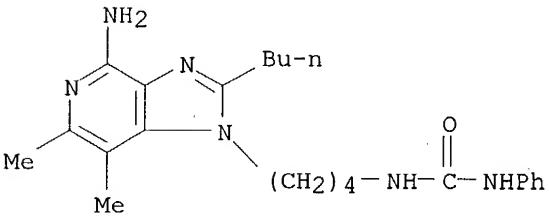
I

AB Title compds. [I; X = alkylene, alkenylene; Y = CO, CS; Z = bond, O, S; R1 = (substituted) aryl, heteroaryl, heterocyclyl; R2 = H, alkoxyalkyl, aryloxyalkyl, (substituted) aryl, heteroaryl, alkyl, alkenyl, etc.; R3, R4 = H, alkyl, alkenyl, halo, alkoxy, amino, alkylthio; R5 = H, alkyl; R5X, R1R5 = atoms to form a ring], were prepared Thus, Et3N and 1-(4-aminobutyl)-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-4-amine (preparation given) in CH2Cl2 were treated with methanesulfonic anhydride under ice cooling followed by stirring for 35 min. to give N-[4-(4-amino-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]methanesulfonamide. The latter induced interferon and tumor necrosis factor production in human peripheral blood mononuclear cells at lowest effective concns. of 0.0046 and 0.01 μM, resp.

IT **437384-44-6P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of aminoimidazopyridinylalkylamides as inducers of cytokine biosynthesis)

RN 437384-44-6 CAPLUS

CN Urea, N-[4-(4-amino-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]-N'-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:150533 CAPLUS

DOCUMENT NUMBER: 138:187770

TITLE: Preparation of sulfonamido/benzamido-alkyl substituted imidazopyridines as immune response modifiers

INVENTOR(S): Dellaria, Joseph F.; Haraldson, Chad A.; Heppner, Philip D.; Lindstrom, Kyle J.; Merrill, Bryon A.

PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA

SOURCE: U.S., 35 pp., Cont.-in-part of U.S. Ser. No. 16,073, abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6525064	B1	20030225	US 2002-165002	20020607
US 2002107262	A1	20020808	US 2001-16073	20011206
WO 2003050117	A1	20030619	WO 2002-US18220	20020607
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WO 2003050119	A3	20030710		
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US 2004019076	A1	20040129	US 2002-322262	20021217
US 6696465	B2	20040224		
US 2004147533	A1	20040729	US 2004-754056	20040107
PRIORITY APPLN. INFO.:			US 2000-254228P	P 20001208
			US 2001-16073	B2 20011206
			US 2002-165002	A1 20020607
			US 2002-322262	A1 20021217

OTHER SOURCE(S): MARPAT 138:187770
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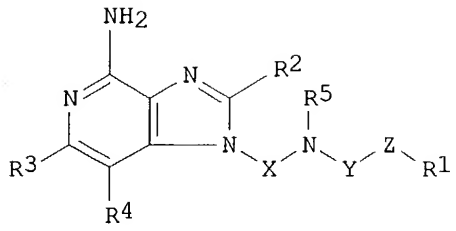

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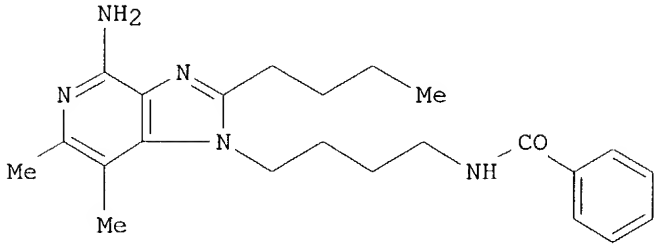


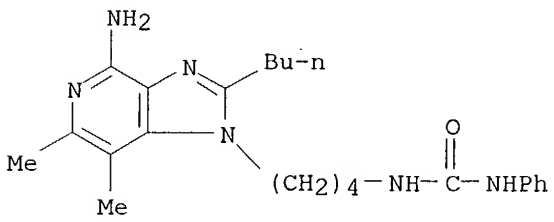
II

AB Title compds. I [X = alk(en)ylene; Y = SO2; Z = bond, amino; R1 = aryl, heteroaryl, alkyl, heterocyclyl, etc.; R2 = H, alkyl, alkenyl, aryl, etc.; R3-4 = H, alkyl, alkenyl, halo, alkoxy, etc.; R5 = H, alkyl, etc.] are prepared For instance, 4-hydroxy-5,6-dimethyl-3-nitro-2(1H)-pyridone was reacted with triflic anhdydride and mono-boc-1,4-butanediamine to give 4-[[4-[(tert-butoxycarbonyl)amino]butyl]amino]-5,6-dimethyl-3-nitropyridin-2-yl trifluoromethanesulfonate. This intermediate was reacted with dibenzylamine (PhMe, Et3N), reduced to the amino derivative (MeOH, NaBH4, NiCl2), acylated/cyclized (CH3CN, valeryl chloride, Et3N), deprotected (CH2Cl2, triflic acid) and acylated (CH2Cl2, PhCOCl) to give II. II caused interferon induction at 0.12 μM and TNF induction at 1.11 μM. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

IT **437384-44-6P**, N-[4-(4-Amino-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]-N'-phenylurea
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of sulfonamido/benzamido-alkyl substituted imidazopyridines as immune response modifiers)

RN 437384-44-6 CAPLUS

CN Urea, N-[4-(4-amino-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]-N'-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:449685 CAPLUS
DOCUMENT NUMBER: 137:33300
TITLE: Preparation of substituted imidazopyridines as immune response modifiers
INVENTOR(S): Lindstrom, Kyle J.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: PCT Int. Appl., 58 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002046194	A2	20020613	WO 2001-US46915	20011206
WO 2002046194	A3	20030206		
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EP 1343783	A2	20030917	EP 2001-987315	20011206
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NO 2003002453	A	20030716	NO 2003-2453	20030528

PRIORITY APPLN. INFO.: US 2000-254228P P 20001208
WO 2001-US46915 W 20011206

OTHER SOURCE(S): MARPAT 137:33300
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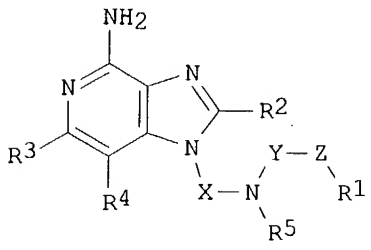


I

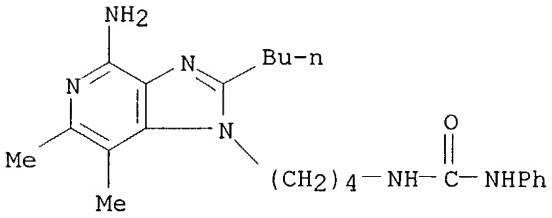
AB The title compds. [I; X = alkylene, alkenylene; Y = CO, CS, SO2; Z = a bond, O, S, NR5; R1 = (un)substituted aryl, heteroaryl, heterocyclyl, etc.; R2 = H, alkyl, alkenyl, etc.; R3, R4 = alkyl, alkenyl, halo, etc.;

R5 = H, alkyl] that contain substituted amine functionality at the 1-position, and are useful as immune response modifiers, were prepared E.g., a multi-step synthesis of I [X = (CH2)4; Y = CO; Z = a bond; R1 = Ph; R2 = Bu; R3, R4 = Me; R5 = H] which showed lowest effective concentration of 0.12 μM and 1.11 μM to induce interferon α and TNFα, resp., was given. The compds. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

IT **437384-44-6P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted imidazopyridines as immune response modifiers)

RN 437384-44-6 CAPLUS

CN Urea, N-[4-(4-amino-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]-N'-phenyl- (9CI) (CA INDEX NAME)



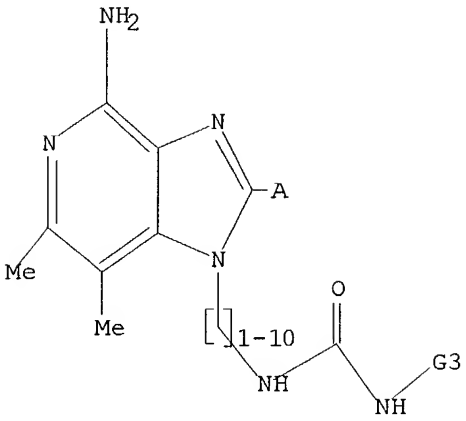
=> d his

(FILE 'HOME' ENTERED AT 10:52:10 ON 19 AUG 2004)

FILE 'REGISTRY' ENTERED AT 10:52:31 ON 19 AUG 2004
L1 STRUCTURE UPLOADED
L2 5 S L1
L3 43 S L1 FULL

FILE 'CAPLUS' ENTERED AT 10:53:03 ON 19 AUG 2004
L4 4 S L3

=> d l1
L1 HAS NO ANSWERS
L1 STR



G1 O,S

G2 H,Me

G3 Cb,Ak

Structure attributes must be viewed using STN Express query preparation.

=>

PALM INTRANET

Day : Thursday
Date: 8/19/2004
Time: 09:19:01

Inventor Name Search Result

Your Search was:

Last Name = HEPPNER
First Name = PHILIP

Application#	Patent#	Status	Date Filed	Title	Inventor Name 40
60581317	Not Issued	020	06/18/2004	ARYL SUBSTITUTED IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
60581297	Not Issued	018	06/18/2004	ARYLOXY AND ARYLALKYLENEOXY SUBSTITUTED THIAZOLOQUINOLINES AND THIAZOLONAPHTHYRIDINES	HEPPNER, PHILIP D.
60581205	Not Issued	020	06/18/2004	ARYL AND ARYLALKYENYL SUBSTITUTED THIAZOLOQUINOLINES AND THIAZOLONAPHTHYRIDINES	HEPPNER, PHILIP D.
60579352	Not Issued	020	06/14/2004	UREA SUBSTITUTED IMIDAZOPYRIDINES, IMIDAZOQUINOLINES, AND IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
60554680	Not Issued	020	03/19/2004	PYRAZOLOPYRIDINES AND ANALOGS THEREOF	HEPPNER, PHILIP D.
60516331	Not Issued	020	10/31/2003	ARYL SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
60508634	Not Issued	020	10/03/2003	ALKOXY SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
60254218	Not Issued	159	12/08/2000	ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10824232	Not Issued	020	04/14/2004	IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
10772170	Not Issued	020	02/04/2004	AMIDE SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10771639	Not Issued	030	02/04/2004	UREA SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10754056	Not Issued	041	01/07/2004	SULFONAMIDO SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.

10696753	Not Issued	071	10/29/2003	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10696478	Not Issued	041	10/29/2003	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10696476	Not Issued	020	10/29/2003	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10696108	Not Issued	041	10/29/2003	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10681814	Not Issued	041	10/07/2003	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
10681711	Not Issued	041	10/07/2003	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10681457	Not Issued	030	10/07/2003	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10680989	Not Issued	041	10/07/2003	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
10675833	Not Issued	041	09/30/2003	HETEROCYCLIC ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10456308	Not Issued	094	06/06/2003	ETHER SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10406181	Not Issued	094	04/03/2003	IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
10358017	6720334	150	02/04/2003	UREA SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10357995	6720333	150	02/04/2003	AMIDE SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10322262	6696465	150	12/17/2002	SULFONAMIDO SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10165750	6677348	150	06/07/2002	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10165453	6545017	150	06/07/2002	UREA SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10165449	6664265	150	06/07/2002	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10165443	6677347	150	06/07/2002	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10165229	6545016	150	06/07/2002	AMIDE SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
10165002	6525064	150	06/07/2002	SULFONAMIDO SUBSTITUTED	HEPPNER,

				IMIDAZOPYRIDINES	PHILIP D.
10164816	6660735	150	06/07/2002	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
10013202	6670372	150	12/06/2001	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10013060	6656938	150	12/06/2001	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
10012599	6683088	150	12/06/2001	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10011921	6664260	150	12/06/2001	HETEROCYCLIC ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
10011670	6660747	150	12/06/2001	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
09706990	6514985	150	11/06/2000	IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
09210114	6194425	150	12/11/1998	IMIDAZONAPHTHYRIDINES	HEPPNER , PHILIP D.

Inventor Search Completed: No Records to Display.

Search Another: Inventor

Last Name Heppner **First Name** Philip

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